

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/014844

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H03L7/085 H03L7/089 H03L7/191

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 502 631 A (TEKTRONIX INC) 9 September 1992 (1992-09-09) the whole document	1,2,4-6
A	US 5 663 688 A (PAILLARDET FREDERIC ET AL) 2 September 1997 (1997-09-02) column 4, line 20 - column 7, line 39; figures 3,7,8	1-12
A	US 5 432 481 A (SAITO TOSHITADA) 11 July 1995 (1995-07-11) abstract; figure 1	1-12
A	US 6 337 891 B1 (KIM JOO YONG) 8 January 2002 (2002-01-08) abstract; figures 1,2	1
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

8 March 2005

Date of mailing of the international search report

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Boudet, J

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 275 072 B1 (YU XIAOYING ET AL) 14 August 2001 (2001-08-14) column 5 - column 7; figures 1,6,8,9,14,15 -----	1-12
A	FR 2 736 223 A (MATRA COMMUNICATION) 3 January 1997 (1997-01-03) cited in the application abstract; figure 7 -----	12
A	US 5 631 587 A (YANG HOWARD C ET AL) 20 May 1997 (1997-05-20) abstract; figures 6,9 -----	7,8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/014844

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0502631	A	09-09-1992	US 5157290 A	20-10-1992
			DE 69214691 D1	28-11-1996
			DE 69214691 T2	28-05-1997
			EP 0502631 A2	09-09-1992
			JP 2743133 B2	22-04-1998
			JP 5191276 A	30-07-1993
US 5663688	A	02-09-1997	FR 2706229 A1	16-12-1994
			DE 69406140 D1	13-11-1997
			DE 69406140 T2	05-02-1998
			EP 0702862 A1	27-03-1996
			WO 9429964 A1	22-12-1994
			JP 9503629 T	08-04-1997
US 5432481	A	11-07-1995	JP 2854777 B2	03-02-1999
			JP 6045922 A	18-02-1994
			DE 69307581 D1	06-03-1997
			DE 69307581 T2	12-06-1997
			EP 0567990 A1	03-11-1993
			KR 9610854 B1	09-08-1996
US 6337891	B1	08-01-2002	NONE	
US 6275072	B1	14-08-2001	US 2001015663 A1	23-08-2001
FR 2736223	A	03-01-1997	FR 2736223 A1	03-01-1997
			AU 6496796 A	30-01-1997
			DE 69601373 D1	25-02-1999
			DE 69601373 T2	27-05-1999
			EP 0835550 A1	15-04-1998
			WO 9701884 A1	16-01-1997
US 5631587	A	20-05-1997	NONE	